

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2012 Levee Inspection Results

Reclamation District No. 2060 Hastings

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway			Bank	Unit Miles
Unit No. 01 Lindsey Slough			Left	6.94
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/22/2012 - 3/22/2012			
DWR Inspector	Herman Phillips			
Accompanied By	Mr. Mark Boyd RD 2060 Hastings Tract			
	Gilbert Casio KSM			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Lindsey Slough							Left	6.94	03/22/2012 03/22/2012	Herman Phillips	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End	Photo	
1			Earthen Levee	Emergency Supplies & Equipment	CR	A Ma		° °	° °	10	
DWR ID: DWR_RD2060_01_s_2012_10											
2			Earthen Levee	Operations & Maintenance Manuals	CR	M Ma		° °	° °	11	
DWR ID: DWR_RD2060_01_s_2012_11											
3			Earthen Levee	Flood Preparedness & Training	CR	A Ma		° °	° °	12	
DWR ID: DWR_RD2060_01_s_2012_12											
4	0.00	0.00	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.247499 ° -121.696301 °	38.247499 ° -121.696301 °	3 Y	
DWR ID: DWR_RD2060_01_s_2012_3											
5	0.00	0.13	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.247294 ° -121.696384 °	38.247336 ° -121.698677 °	1	
DWR ID: DWR_RD2060_01_s_2012_1											
6	0.56	0.57	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site. Inspector Comments: District has placed some more rock in this area, they will place more later. 3-08-2011 viewed the erosion site, this site is still active. District say that they will make repairs end of April or May 2011.	38.248630 ° -121.706403 °	38.248617 ° -121.706667 °	14	
DWR ID: DWR_RD2060_01_s_2012_14											
7	1.70	1.70	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011: Multiple erosion pockets. Deep cracks throughout site could lead to further bank failure. [2011 Site ID: LDS_1-9_L]	38.256535 ° -121.724753 °	38.257517 ° -121.724823 °	4 Y	
DWR ID: DWR_RD2060_01_s_2012_4											
8	2.34	2.34	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011: Two erosion pockets from rotational failures. Very soft soil. [2011 Site ID: LDS_2-4_L]	38.257224 ° -121.731953 °	38.257319 ° -121.732423 °	5 Y	
DWR ID:											
9	4.15	4.30	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.260118 ° -121.758012 °	38.261271 ° -121.760375 °	2	
DWR ID: DWR_RD2060_01_s_2012_2											
10	5.07	5.07	Earthen Levee	Repair Gates	CR	M Ma		38.263157 ° -121.771543 °	38.263157 ° -121.771543 °	6	
DWR ID: DWR_RD2060_01_s_2012_6											

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.94	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 2060 Unit 1 levee mile 0.00 looking downstream from landside shoulder. This photo was taken 3-22-2012.

phillips_s_20120326_373.jpg



Levee Mile Report Line	7
Start Levee Mile	1.70
End Levee Mile	1.70
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_282.jpg



Levee Mile Report Line	7
Start Levee Mile	1.70
End Levee Mile	1.70
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_283.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.94	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	7
Start Levee Mile	1.70
End Levee Mile	1.70
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

phillips_s_20120306_284.jpg



Levee Mile Report Line	8
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_285.jpg



Levee Mile Report Line	8
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_286.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.94	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	8
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #3	
phillips_s_20120306_287.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway			Bank	Unit Miles
Unit No. 02 Ulatis Creek			Right	3.70
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/22/2012 - 3/22/2012			
DWR Inspector	Herman Phillips			
Accompanied By	Mr. Mark Boyd RD 2060 Hasting Tract			

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.70	03/22/2012 03/22/2012	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.11	0.11	Earthen Levee	Vegetation	LS	A	V1 : Control annual grass and weeds on the levee slopes and easements.	38.276176 ° -121.795873 °	38.276176 ° -121.795873 °	7 Y
DWR ID: DWR_RD2060_02_s_ 2012_7										

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.70	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.11
End Levee Mile	0.11
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 2060 Looking downstream from levee mile 0.11. This photo was taken 3-22-2012.

phillips_s_20120326_374.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway			Bank	Unit Miles
Unit No. 03 Cache Slough			Right	5.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/22/2012 - 3/22/2012			
DWR Inspector	Herman Phillips			
Accompanied By	Mr. Mark Boyd RD 2060 Hasting Tract			

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway					Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 03 Cache Slough					Right	5.03	03/22/2012 03/22/2012		Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.55	0.55	Earthen Levee	Vegetation	WS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.292013 ° -121.741091 °	38.292013 ° -121.741091 °	13 Y
DWR ID: DWR_RD2060_03_s_2012_13										
2	1.54	1.63	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: Site added in 1997 and removed in 2003. 2005 - Put back in the inventory. 2006 - Stone repair at the middle of the site. 2011: Some rock has been placed at toe in the past year. [2011 Site ID: CHS_23-6_R]	38.288192 ° -121.724806 °	38.286418 ° -121.723168 °	4 Y
DWR ID: DWR_RD2060_03_s_2012_4										
3	1.95	1.95	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2010 - Small maintenance site. 2011: No observed change. [2011 Site ID: CHS_23-0_R]	38.283302 ° -121.717814 °	38.284105 ° -121.718471 °	5 Y
DWR ID: DWR_RD2060_03_s_2012_5										
4	2.10	2.20	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2010 - Minor new erosion. 2011: No observed change. [2011 Site ID: CHS_22-8_R]	38.282100 ° -121.716817 °	38.281510 ° -121.716319 °	8 Y
DWR ID: DWR_RD2060_03_s_2012_8										
5	2.28	2.48	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2008 - Small scour pockets and mid-slope wave wash. 2010 - More vegetation growth, could be fixed through maintenance. 2011: site extended downstream. new erosion. [2011 Site ID: CHS_22-6_R]	38.280377 ° -121.714633 °	38.278306 ° -121.712722 °	10 Y
DWR ID: DWR_RD2060_03_s_2012_10										
6	2.63	3.25	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.277161 ° -121.711630 °	38.270091 ° -121.705689 °	1
DWR ID: DWR_RD2060_03_s_2012_1										
7	2.79	3.25	Earthen Levee	Vegetation	WSA/W	Ob	V8 : Environmental Requirements.	38.280919 ° -121.715756 °	38.275177 ° -121.709777 °	3
DWR ID: DWR_RD2060_03_s_2012_3										
8	3.28	3.48	Earthen Levee	Vegetation	WSA/W	Ob	V8 : Environmental Requirements.	38.270863 ° -121.706800 °	38.270324 ° -121.705904 °	12
DWR ID: DWR_RD2060_03_s_2012_12										
9	3.67	3.88	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011: Several large pockets of erosion from rotational failure. Toe is slumping. [2011 Site ID: CHS_21-1_R]	38.264585 ° -121.698868 °	38.261616 ° -121.697423 °	11 Y
DWR ID: DWR_RD2060_03_s_2012_11										

*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.55
End Levee Mile	0.55
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 2060 Unit 3 looking downstream from waterside shoulder. Photo taken 3-22-2012.	
phillips_s_20120326_375.jpg	



Levee Mile Report Line	2
Start Levee Mile	1.54
End Levee Mile	1.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
phillips_s_20120306_288.jpg	



Levee Mile Report Line	2
Start Levee Mile	1.54
End Levee Mile	1.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
phillips_s_20120306_289.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	3
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_290.jpg



Levee Mile Report Line	3
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_291.jpg



Levee Mile Report Line	3
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

phillips_s_20120306_292.jpg

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	2.10
End Levee Mile	2.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_293.jpg



Levee Mile Report Line	4
Start Levee Mile	2.10
End Levee Mile	2.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_294.jpg



Levee Mile Report Line	4
Start Levee Mile	2.10
End Levee Mile	2.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

phillips_s_20120306_295.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	5
Start Levee Mile	2.28
End Levee Mile	2.48
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_296.jpg



Levee Mile Report Line	5
Start Levee Mile	2.28
End Levee Mile	2.48
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_297.jpg



Levee Mile Report Line	9
Start Levee Mile	3.67
End Levee Mile	3.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_298.jpg



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Levee Inspections**

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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/22/2012 03/22/2012	Herman Phillips

Levee Mile Report Line	9
Start Levee Mile	3.67
End Levee Mile	3.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_299.jpg



Levee Mile Report Line	9
Start Levee Mile	3.67
End Levee Mile	3.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

phillips_s_20120306_300.jpg

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